



GEOMETRY, DYNAMICS
AND FIELD THEORY NETWORK

August 2026

Editors: Viviana Díaz, Asier
López-Gordón, Rodrigo Sato

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Geometry, Dynamics and Field Theory Network Infosheet

Outstanding workshop

XXXIV International Fall Workshop on Geometry and Physics.

1–4 September 2026, Tarragona, Spain.

Other scientific events

Dynamics of entanglement.

1–4 September 2026, Cambridge, United Kingdom.

New Trends in the Applications of Differential Equations in Sciences.

1–4 September 2026, Sozopol, Bulgaria.

Conformally Symplectic Dynamics and Geometry.

1 September 2026–30 April 2027, New Jersey, USA.

Emerging Trends in Applied Mathematics and Mechanics.

2–4 September 2026, Lodz, Poland.

Differential Geometry Workshop 2026.

2–4 September 2026, Rostock, Germany.

Stochastic and Analytic Methods in Mathematical Physics.

7–12 September 2026, Yerevan, Armenia.

Modern Problems of Mathematics and Mechanics.

9–12 September 2026, Baku, Azerbaijan.

Higher Structures in Quantum Field Theory.

13–18 September 2026, Hangzhou, China.

Quantum Field Theory, Many Particle Systems and Effective Models.

13–18 September 2026, Oberwolfach, Germany.

XIV Forum of Partial Differential Equations.

13–19 September 2026, Będlewo, Poland.

Fields-CNAM Nonlinear Days 2026.

14–18 September 2026, Toronto, Canada.

PDEs: Verification, Mathematics, and Algorithms in the Age of AI.

17–18 September 2026, Los Angeles, USA.

Workshop on Calabi-Yau Manifolds and Special Lagrangian Submanifolds.

20–24 September 2026, Toronto, Canada.

Classical and Quantum Mechanical Models of Many-Particle Systems.

20–25 September 2026, Oberwolfach, Germany.

Analysis and Partial Differential Equations.

23–25 September 2026, Hannover, Germany.

Quantum topology, character varieties and low-dimensional geometry.

23 September–18 December 2026, Los Angeles, USA.

Contemporary Trends in Hamiltonian Geometry.

27 September– 2 October 2026, Les Diablerets, Switzerland.

IAS Frontiers Conference on Geometry, Dynamics, and Learning.

28–29 September 2026, Singapore, Singapore.

Nonlinear waves: hyperbolic and dispersive models of fluid dynamics.

28 September–2 October 2026, Sochi, Russia.

Mirror Symmetry, Calabi-Yau Threefolds, and Connections to Physics.

28 September– 2 October 2026, Providence, USA.

Analysis and Geometry at the Crossroads.

30 September– 2 October 2026, Braga, Portugal.

Integrable Systems and Quantum Theory.

1–8 October 2026, Moscow and Saint-Petersburg, Russia.

New Horizons in Mathematical Physics.

5–9 October 2026, Moscow, Russia.

Hyperbolic Structures and Quantum Invariants.

12–15 October 2026, Los Angeles, USA.

Perspective Directions in Quantum Field Theory and Superstrings.

12–17 October 2026, Moscow, Russia.

Interactions between quantum and homotopical geometry.

12 October–18 December 2026, New York, USA.

Stochastic and Relaxation Effects in Fluid Dynamics.

18–23 October 2026, Oberwolfach, Germany.

VII Workshop on Fluids and PDE.

19–23 October 2026, Recife, Brazil.

Fluid equations: old and new.

19–23 October 2026, Warszawa, Poland.

1st International Online Conference on Symmetry.

20–22 October 2026, Basel, Switzerland.

Contact Geometry, Cluster Algebras and Skein Theory.

26–29 October 2026, Los Angeles, USA.

Large Scale Dynamics: Quantum, Classical & Stochastic.

26–29 October 2026, Munich, Germany.

KAM theory and PDEs.

26–30 October 2026, Luminy, France.

Spectral theory applied to physics.

28–30 October 2026, Luminy, France.

Mathematics of Physics-Oriented Machine Learning.

15–20 November 2026, Oberwolfach, Germany.

Pseudo-Hermitian Hamiltonians and Quantum Physics.

15–21 November 2026, Erice, Italy.

Numerics for Evolutionary PDEs: from Nonlinear Parametrizations to Time Integration.

22–27 November 2026, Oberwolfach, Germany.

Structural and Geometry Features of PDE & Systems.

23–27 November 2026, Będlewo, Poland.

RCD: Nonlinear Dynamics, Mechanics and Robotics.

23–27 November 2026, Izhevsk, Russia.

International Conference on Differential Geometry, Mathematical Physics, General Relativity and Computing.

26–28 November 2026, Kolkata, India.

Dynamics in Geometric Dispersive Equations and the effects of Trapping, Scattering and weak Turbulence, III.

29 November–4 December 2026, Banff, Canada.

PDEs and Applications in Biology.

29 November–5 December 2026, Oberwolfach, Germany.

Dynamic Chaos.

30 November–4 December 2026, Moscow, Russia.

Differential Equations and Calculus of Variations.

1–3 December 2026, Moscow, Russia.

Nonlocal Boundary Value Problems and Related Problems in Mathematical Biology, Informatics, and Physics.

1–5 December 2026, Nalchik, Russia.

The 15th International Conference on Computational Mechanics.

4–6 December 2026, Sanya, China.

Mathematics of Unresolved Processes in Atmosphere–Ocean Dynamics.

6–11 December 2026, Oberwolfach, Germany.

Dynamical Renormalization and MLC.

4 January–5 March 2027, New York, USA.

Winter School in Mathematical Physics.

10–15 January 2027, Les Diablerets, Switzerland.

Advances and Challenges in Computational Partial Differential Equations.

11–15 January 2027, Providence, USA.

Wave-Kinetic Interfaces: Dispersive Dynamics Meets Kinetic Theory.

17–22 January 2027, Oberwolfach, Germany.

Geometric Methods in Data Science.

24–29 January 2027, Oberwolfach, Germany.

Cobordisms, Quantum Fields, and Quantum Gravity.

31 January–5 February 2027, Banff, Canada.

Half a century of Dynamical Renormalization.

8–12 February 2027, New York, USA.

Mathematical Challenges in Quantum Mechanics.

8–12 February 2027, Milano, Italy.

2nd Workshop on spectral geometry, PDEs and mathematical physics.

17–18 February 2027, Hagen, Germany.

Virtual seminars

Seminar of the Geometry, Dynamics, and Field Theory Thematic Network.

Instituto de Ciencias Matemáticas' seminars on these topics.

Geometry and Applications: Modern Mathematical Approaches (GAMMA) Seminar.

University of Warsaw, the Universitat Rovira i Virgili, and the Polytechnic University of Catalonia.

Journal Club and Seminars Series in Field Theory.

International Centre for Theoretical Physics.

Reading Groupoid Sessions (In person or virtually).

A collective study sessions dedicated to Lie Groupoids and their connection to Mathematical Physics.

Advanced Lectures on Theoretical Physics and Mathematics.

ICTP-PWF Latin America-Physics Latam New Seminar Series.

Trans-Carpathian Seminar on Geometry and Physics.

A merger of Bucharest Geometry and Physics Seminar and Warsaw Seminar on Geometric Methods in Physics.

One World IAMP Mathematical Physics Seminar.

Seminar of International Association of Mathematical Physics.

Seminar on Geometry with Symmetries.

On Lie group actions in Riemannian geometry.

Control and Optimization Seminar.

Louisiana State University.

Algebraic Geometry and Mathematical Physics Geometry.

Universidad Complutense de Madrid.

Differential Geometry Seminar Torino.

Organised by the Differential Geometry groups of Università di Torino and Politecnico di Torino.

Symplectic Zoominar.

Online Seminar organized by CRM-Montréal, Princeton/IAS, Tel Aviv, and Paris.

ICTP Virtual Seminars.

Online Seminar organized by International Centre for Theoretical Physics.

Theory of Duality Seminar.

Department of Mathematical Methods in Physics, University of Warsaw.

Geometry and Topology Online.

Warwick Mathematics Institute.

Instituto Balseiro Seminar.

Instituto Balseiro' public seminars live on Youtube.

Opportunities

Ph.D. offers

PhD student position in Nonsmooth Variational Problems and Operator Equations.

Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany

Closing date: To be filled at the earliest possible date.

PhD position in the Analysis of energy-variational solutions for hyperbolic conservation laws.

Weierstrass Institute for Applied Analysis and Stochastics, Berlin, Germany

Closing date: 14 September 2026.

University Assistant without doctorate.

Department of Mathematics and Scientific Computing, University of Graz, Austria

Closing date: 21 September 2026.

PhD positions within Mathematics and
Stochastics.

Department of Mathematics, Aarhus University, Denmark

Closing date: 1 November 2026, 23:59 CEST.

Several PhD opportunities.

School of Mathematics, University of Birmingham, England, UK

Closing date: Applications accepted all year round.

PhD position in Geometric Deep Learning.

Heidelberg Institute for Theoretical Studies, Germany

Closing date: Applications will be reviewed on a rolling basis.

PhD in Theoretical Quantum Physics.

University of Luxembourg, Luxembourg

Closing date: Open. Applications will be processed upon reception.

Postdoctoral fellowships

ISTA-Fellow: Postdoctoral Program.

Institute of Science and Technology Austria, Klosterneuburg, Austria

Closing date: 8 September 2026.

NOMIS-ISTA Fellowship.

Institute of Science and Technology Austria, Klosterneuburg, Austria

Closing date: 10 September 2026.

Postdoctoral positions in Mathematics and Stochastics.

Department of Mathematics, Aarhus University, Denmark

Closing date: 5 October 2026, 23:59 CEST.

HITS Independent Postdoc Program.

Heidelberg Institute for Theoretical Studies, Heidelberg, Baden-Wuerttemberg, Germany

Closing date: 1 November 2026.

Postdoc on geometric partial differential equations and general relativity.

Pennsylvania State University, University Park, USA

Closing date: Not specified. The position will begin on Autumn 2026.

Postdoctoral Positions.

School of Mathematical Sciences, Zhejiang University, China

Closing date: 16 December 2026.

Postdoc positions in solid and fluid mechanics and computational geometry.

School of Mathematical Sciences, University of Science and Technology of China, Hefei, China

Closing date: 16 April 2027.

Departmental Postdocs.

Department of Mathematics, National University of Singapore

Closing date: None. Positions beginning in August 2027.

Postdoctoral Researcher Recruitment.

POSTECH Department of Mathematics, Pohang-Si, South Korea

Closing date: Reviewed on a rolling basis.

Postdoctoral Position 2026.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Postdoctoral Position 2026.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Humboldt Research Fellowship for Postdoctoral Researchers.

Alexander von Humboldt Foundation

Closing date: Open.

Offers for researchers

Assistant / Associate / Full Professor in Applied Mathematics & Mathematical Physics, in Statistics, in Mathematical Finance, or in Pure Mathematics.

Imperial College London, England, UK

Closing date: 20 September 2026.

Regius Professor of Mathematics.

University of St Andrews, Scotland, UK

Closing date: 24 September 2026.

Several positions at the rank of Professor.

Graduate School of Mathematics, Nagoya University, Furo-cho, Nagoya, Aichi, Japan

Closing date: 28 September 2026 23:59 JST.

University Professorship in Mathematics.

Karlsruhe Institute of Technology, Karlsruhe, Baden-Wurttemberg, Germany

Closing date: 30 September 2026.

Lecturer in Mathematics.

University College Cork, Cork, Ireland

Closing date: 20 October 2026, 12:00 IST.

Several positions in areas including Computational Mathematics, Complex Geometry, Geometric Analysis, and Mathematical Physics.

School of Mathematics and Statistics, Wuhan University, China

Closing date: 26 November 2026.

Associate and Full Professor positions.

School of Mathematical Sciences, University of Science and Technology of China, Hefei, China

Closing date: 16 April 2027.

Assistant, associate and full professor positions.

Yau Mathematical Sciences Center, Tsinghua University, Beijing, China

Closing date: 7 May 2027.

Assistant Professor 2026.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Full/Associate Professor 2026.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Tenure-Track and Post-Doc Positions.

Mathematics Research Lab, Baku State University, Azerbaijan

Closing date: The hiring committee will begin reviewing applications immediately. Positions will remain open until filled.

Faculty Positions in Mathematical Sciences.

School of Mathematics and Statistics, Beijing Institute of Technology, China

Closing date: Applications are reviewed on a rolling basis year-round. Early submission is encouraged.

Tenure-track Assistant Professor Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Associate and Full Professor Positions in Differential Geometry, Algebraic Geometry, Topology and Quantum Field Theory.

Institute of Geometry and Physics, University of Science and Technology of China, Hefei, China

Closing date: none.

Research visit offers

Abel Visiting Scholar Program.

International Mathematical Union.

Postdoctoral mathematician to visit a research collaborator for a month.

Closing date: 31 August, 31 December and 30 April.

Simons Visiting Professors at Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Junior or senior scientists from outside Europe.

Closing date: Open.

Focused research groups in Banff, Canada.

Banff International Research Station, Canada.

Up to 8 researchers for periods of 1 to 2 weeks.

Closing date: Minimum 4 months before the event.

Research in Teams in Banff, Canada.

Banff International Research Station, Canada.

Teams of 2 to 4 researchers for 1 to 2 weeks.

Closing date: Minimum 4 months before the event.

International Research in Groups at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

Small groups of researchers for 2 to 4 weeks.

Closing date: Open at any time.

Research in Residence at CIRM.

Centre International de Rencontres Mathématiques (CIRM), France.

2 to 4 researchers.

Closing date: Open at any time.

Visiting scholar opportunity in Cambridge.

University of Cambridge, United Kingdom.

Scholars and fellows for development of research, teaching and collaboration.

Closing date: Open.

Small team visiting the CRM.

Centre de Recerca Matemàtica, Catalonia, Spain.

Postdoctoral positions and research in pairs.

Closing date: Any time between 6 and 12 months before the start of the desired stay.

Visiting research fellow in Kent State University.

Mathematics Department-KSU, Ohio, USA.

Visiting for scholar researchers.

Closing date: Open.

Financial support

Thematic Programs at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year. Three years ahead.

Hot topics Workshop at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Summer Graduate Schools at MSRI.

Mathematical Sciences Research Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Full or Half-year Scientific Programs.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Hot Topic Workshops.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Revisiting Fundamental Problems Workshop.

Simons Laufer Mathematical Sciences Institute, Berkeley, United States.

Deadline: 1 October, 1 December, and 1 March, every year..

Workshop at CIRM.

Centre International de Rencontres Mathématiques, France.

Deadline: Open at any time.

CIMPA Online Courses Program.

Geographic areas of activities of CIMPA (Africa, Central or South America, Asia).

Deadline: Open all year.

Support for Workshop Organization at Banff.

Banff International Research Station.

Deadline: No precise deadline.

Proposal of a Workshop in the Mathematisches Forschungsinstitut Oberwolfach.

Oberwolfach, Germany.

Deadline: Open.

Targeted Grants in Mathematical and Physical Sciences.

Simons Laufer Mathematical Sciences Institute,

Berkeley, United States.

Deadline: At any time.

Hosting a workshop at AIMS South Africa.

Contributions for workshops about AIMS's research focus areas.

Deadline: No precise deadline.

News and publications

Calls for papers

Special Issue of "Geometric Mechanics" commemorating the centenary of groupoids.

Guest Editors: Manuel de León, Alberto Ibort and

Víctor Jiménez.

Deadline: January 31, 2027.

Journals

Geometric Mechanics.

Published by World Scientific about applications of geometric methods in mechanics, dynamics, control, transport, stochastic processes, data science, and learning.

Deadline: No precise deadline.

Geometric methods in mechanics and

physics.

Open-access sponsored by the International Research Center for Mathematics & Mechanics of Complex Systems Journal (Italy). On topics such as variational methods, numerical methods, and optimization techniques.

Deadline: No precise deadline.

Preprints

Network's members

Elena Celledoni, David Martín de Diego, Brynjulf Owren and Miguel Vaquero: *A Unified Discrete Gradient-SAV Framework for Structure-Preserving Integration.*

2607.27795

[math.NA, math-ph]

Marco Caserta, Antonio García Romero and Miguel Vaquero: *A Robust Chance Constrained Approach to Surgery Scheduling.*

2608.03931

[math.OC]

Manuel de León, Cristina Sardón and Xuefeng Zhao: *A geometric approach to the (generalized) Noether theorem for Hamiltonian systems on (non)-uniform q -contact manifolds.*

2608.05681

[math.SG, math-ph]

Omayra Yago Nieto, Alexandre Anahory Simões and Leonardo Colombo: *Safety-Critical Control*

for Quadrotor UAVs via Decentralized Navigation Functions.

2608.13507

[eess.SY, math.OC]

Samuel Fedida, Alberto Ibort and Arnau Mas-Dorca: *A groupoidal approach to quantum reference frames.*

2608.14133

[quant-ph, hep-th, math-ph]

Madeleine Jotz and Linus Mußmächer: *Three explicit examples of Lie 2-groupoids.*

2608.17811

[math.DG]

Carla Benítez, David Iglesias Ponte, Juan Carlos Marrero and Edith Padrón: *Reduction of symmetric time-dependent Hamiltonian systems I: presymplectic principal $\mathbb{R}$ -bundles.*

2608.28278

[math.DG, math-ph, math.SG]

Network's collaborators

Alberto S. Cattaneo, Filippo Fila-Robattino and Manuel Tecchiolli: *The reduced Dirac structure of General Relativity on manifolds with corners.*

2607.28262 (version 3)

[math-ph, math.DG, math.SG]

Luca Rizzi, Mario Sigalotti and Nicolò Tedesco: *Branching of regular abnormal geodesics in sub-Riemannian manifolds of rank two.*

2607.29315

[math.DG]

Raquel Caseiro and Fani Petalidou: *Loday algebroids cohomology, nonlinear connections and characteristic classes.*

2608.00862 (version 2)

[math.DG]

R. Camassa, G. Falqui and E. Sforza: *A Hamiltonian approach to the CH-KP equation.*

2608.02028

[math-ph]

Antonio De Nicola, Fabrizio Pugliese and Luca Vitagliano: *On Homogeneous Kähler Manifolds.*

2608.03785

[math.DG]

Alexander Felski and Andreas Fring: *Integrable curl-force Hamiltonians: bi-Hamiltonian structure, separability, and periodic orbits.*

2608.05952

[nlin.SI, math-ph, physics.class-ph]

David Martínez Torres and Carlos Tomei: *Diagonalization of the Toda flow for arbitrary isospectral symmetric matrices.*

2608.07263

[math.DG]

Felix Finster, Niky Kamran and Frank van der Top: *The $\mathcal{L}$ -Calculus for Causal Variational Principles: An Exterior Differential Calculus on Non-Smooth Spaces.*

2608.08811

[math-ph, math.AT, math.DG]

Janina Schaa, Maria Charitidou, Dimos V. Dimarogonas and Thomas Berger: *Distance-Based Formation Control with Prescribed Performance for Higher-Order Multi-Agent Systems.*

2608.12896 (version 2)

[math.OC]

Inkyu Jang, Gregorio Marchesini, Nicola De Carli, Byeongjun Kim, Sunwoo Hwang, Dabin Kim, Elias Krantz, Youngkyoung Kong, Frank J. Jiang, Annika Wong, Pedro Roque, Prasetyo W. L. Sanjaya, Nicola Bastianello, Mani H. Dhullipalla, Karl H. Johansson, Hyungbo Shim, Dimos V. Dimarogonas and H. Jin Kim: *Demonstration of Space Robot Teleoperation over a Lossy and Delayed Network using ATMOS.*

2608.14031

[cs.RO, eess.SY, math.OC]

Arvind R. Venkatakrishnan, Max Emerick, Bassam Bamieh and Francesco Bullo: *Mean-Field Oscillator Ising Machines: Gradient Flows and Classification of Limit Solutions.*

2608.16025

[math.OC, eess.SY, math.DS]

Florio M. Ciaglia, Giuseppe Marmo, Marco Pacelli, Luca Schiavone and Alessandro Zampini: *A two-point approach to the inverse problem in information geometry.*

2608.16714

[math.DG]

Thematic partner groups

GEOMETRY, DYNAMICS AND FIELD THEORY NETWORK

Mathematical physics group - Universidad de Burgos (Burgos, Spain)

Geometry group - Universität Würzburg (Würzburg, Germany)

Geometric mechanics group - Universidad Nacional del Sur (Bahía Blanca, Argentina)

Geometry group - Università degli Studi di Salerno (Salerno, Italy)

Geometry and mathematical physics group - Loughborough University (Loughborough, United Kingdom)

Q-Math group - Universidad Carlos III (Madrid, Spain)

Geometry, dynamics, and learning team

- Nanyang Technological University (Singapore, Singapore)

Control and geometry team - Inria Paris Center (Paris, France)

Geometrical mathematical physics research

group (Madrid, Spain)

Réseau de recherche en physique mathématique (Dijon – Lyon – Metz, France)

Research Group on Mathematical Physics - Universidad de Valladolid (Valladolid, Spain)

Links of interest

Newsletters

International Mathematical Union (IMU) Newsletter - July 2026

Instituto de Ciencias Matemáticas (ICMAT) Newsletter - June 2026

European Mathematical Society (EMS)

Newsletter - June 2026

International Association of Mathematical Physics Bulletin - April 2026

IEEE Open Journal of Control Systems Newsletter - 2026

Entities

European Mathematical Society

Royal Spanish Mathematical Society (RSME)

International Association of Mathematical Physics

International Centre for Theoretical Physics (ICTP)

Association for Women in Mathematics (AWM)

European Research Council

European Commission Funding & Tenders Portal

European Commission - Research and Innovation

International Center of Pure and Applied Mathematics (CIMPA)

Mathematical and physical sciences funding, National Science Foundation, USA

Journals

Geometric Mechanics

Computational Mechanics

IEEE Open Journal of Control Systems

Open Access Mathematics Journals

Open Access American Institute of Mathematical Sciences (AIMS) Journal

Issue on topological and variational methods in nonlinear problems American Institute of Mathematical Sciences (AIMS)

Open Access Physics Journals

Societat Catalana de Matemàtiques (SCM) journal on Mathematics

Prizes and awards

IACM Computational Mechanics Award

IACM O.C. Zienkiewicz Award

IACM Congress Medal (Gauss-Newton

Medal)

IACM John Argyris Award for Young Scientists

IACM Fellows Award

SIAM Activity Groups award various prizes

International Mathematical Union Awards and Prizes

Other Prizes of International Mathematical Union

American Mathematical Society Prizes and Awards

Association for Women in Mathematics Awards

IEEE Control Systems Society Awards

Royal Society of London Premier Medals and Awards

London Mathematical Society Prizes

The Shaw Prize

The Henri Poincaré Prize

The British Royal Society Grants

The British Royal Society's medals and award

NOTE: If you want to include information in this info-sheet, please send it to gmcactivities@gmail.com